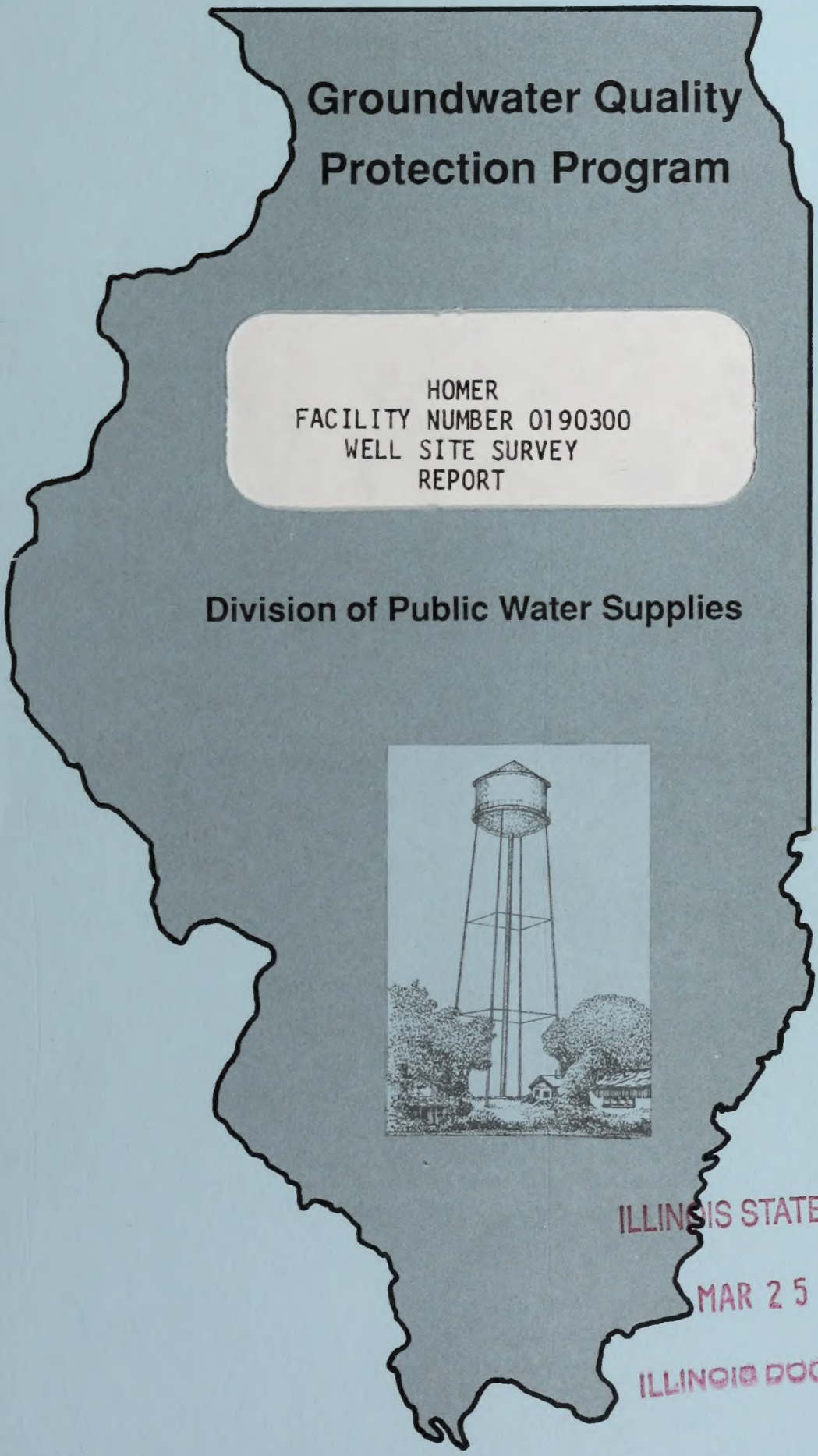


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# Groundwater Quality Protection Program

HOMER  
FACILITY NUMBER 0190300  
WELL SITE SURVEY  
REPORT

Division of Public Water Supplies



ILLINOIS STATE ILLINOIS

MAR 25 1991

ILLINOIS DOCUMENTS





IEPA/PWS/90-279

GROUNDWATER QUALITY PROTECTION PROGRAM:

HOMER  
FACILITY NUMBER 0190300  
WELL SITE SURVEY  
REPORT

Prepared by:

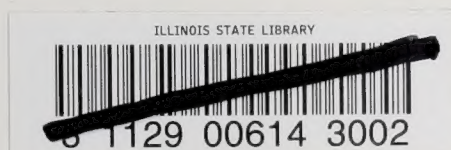
Division of Public Water Supplies

Published by:

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Springfield, Illinois

January, 1991



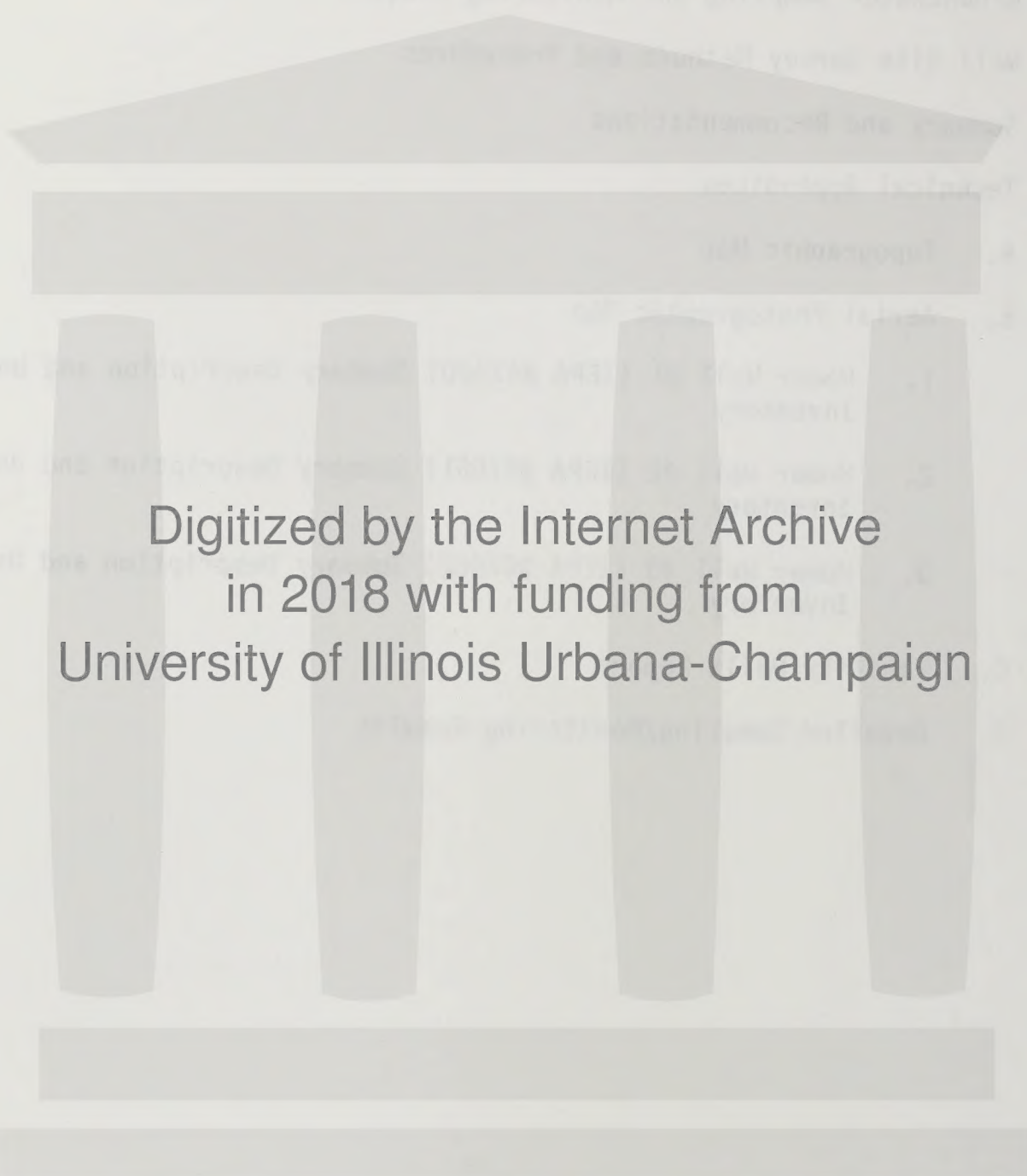


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## INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

## FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Village of Homer obtains its water from three drift wells. These wells provide an average of 106,000 gallons per day to 600 services. See Table I for a description of each well. The surficial geologic susceptibility rating for all three wells is E. The aquifer is overlain by low permeability glacial till. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A complete description and geologic profile is found in the Facility Wells Report (Appendix C).

Table I

|                    | Minimum<br>Setback<br>(ft.) | Maximum<br>Setback<br>(ft.) | Status | Capacity<br>(gpm)<br>(MGD) | Specific<br>Capacity<br>(gpm/ft.) | Treatment                 | Aquifer               | Well<br>Depth<br>(ft.) | Well<br>Logs<br>Available |
|--------------------|-----------------------------|-----------------------------|--------|----------------------------|-----------------------------------|---------------------------|-----------------------|------------------------|---------------------------|
| Well #1<br>(47660) | 200                         | No                          | A      | 50<br>0.072                |                                   | Aer., Filt.,<br>Chl., Fl. | Sand<br>and<br>Gravel | 72                     | Yes                       |
| Well #2<br>(47661) | 200                         | No                          | A      | 90<br>0.130                |                                   | same                      | same                  | 61                     | Yes                       |
| Well #3<br>(47662) | 200                         | No                          | A      | 100<br>0.144               |                                   | same                      | same                  | 59                     | Yes                       |

A - Active

## GROUNDWATER SAMPLING AND MONITORING HISTORY

Homer Wells #1 and #2 were sampled on May 14, 1986 as part of a Statewide Groundwater Monitoring Program. Well #3 was not sampled due to electrical problems. The samples were analyzed for inorganic compounds (IOC) and volatile organic/aromatic compounds (VOC/VOA). In addition, Well #1 was sampled for synthetic organic pesticides (SOC).

VOC/VOA analyses did not detect quantifiable levels of any organic compounds. SOC analyses did not detect any pesticides/herbicides. IOC analyses indicate that parameters are consistent with other sand and gravel aquifers in Illinois (Appendix D).



## WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). The Agency 5-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

### Survey Results and Findings

The Homer well site survey was conducted on June 5, 1990 by Wade Boring from the Agency's Springfield Office. The following describes the results and findings for the Homer public water wells.

#### Homer Well #1 (IEPA # 47660)

The survey area is mostly rural. The area is a mixture of row crops and residential, with some commercial. There are two possible problem sites within 1,500 feet of Well #1. They are below ground fuel storage (map code 1) 1400 ft. NE and Homer Automotive (map code 3) 1350 ft. NE.

#### Homer Well #2 (IEPA #47661)

The survey area is mostly rural. The area is a mixture of row crops and residential. There were no visible sources of contamination within 1,500 feet of Well #2.

#### Homer Well #3 (IEPA #47662)

The survey area is mostly rural. The area is a mixture of row crops and residential. There were no visible sources of contamination within 1,500 feet of Well #3.

## SUMMARY AND RECOMMENDATIONS

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Homer public water wells.

- One site with below ground fuel storage and one automotive repair shop.



The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.

Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination up to a distance of 1,000 feet from the wellhead. In addition, a maximum setback zone could expand the regulatory coverage of certain new and existing activities. These controls could be implemented upon the adoption of proposed regulations by the Illinois Pollution Control Board.

The Agency strongly urges Homer to consider establishing a maximum setback zone for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.





## TECHNICAL APPENDICES





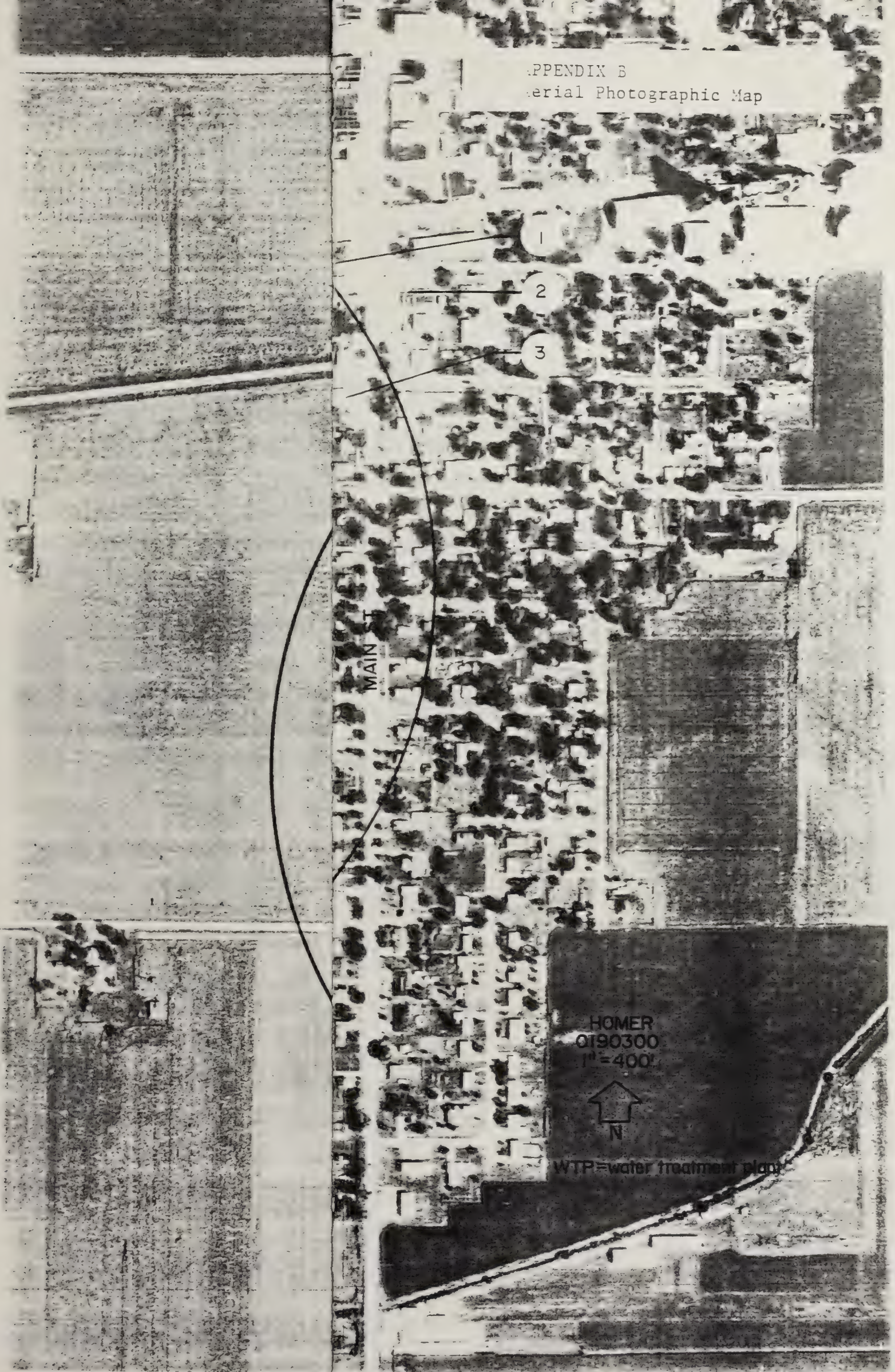
APPENDIX A  
Topographic Map Displaying Homer Well Locations





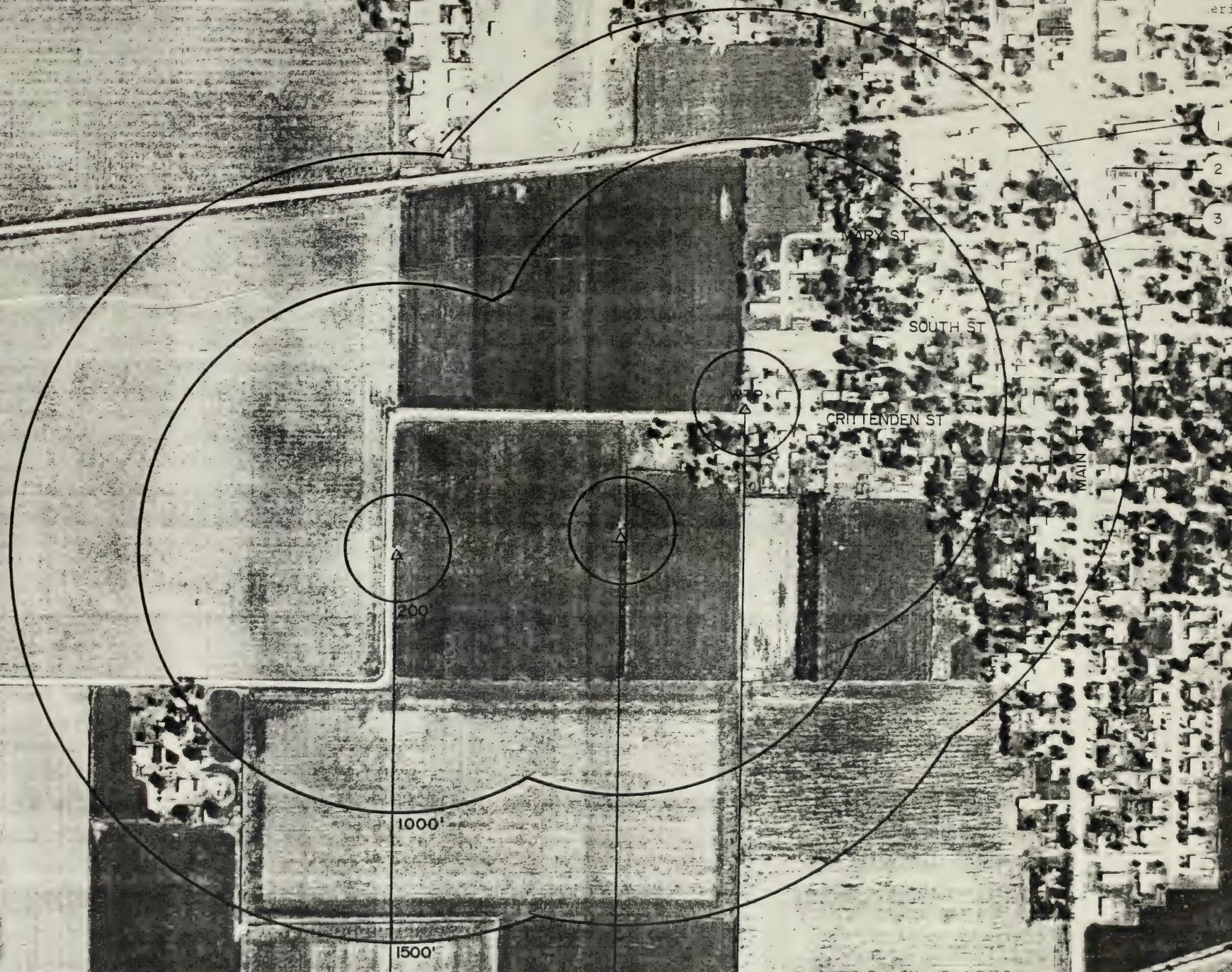


APPENDIX B  
Aerial Photographic Map





APPENDIX B  
Aerial Photographic Map



- 1
- 2
- 3

HOMER  
0190300  
= 400'



WTP = water treatment plant



APPENDIX: B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Homer

Well #1 (IEPA #47660)

SURVEYOR: W. Boring

SURVEY DATE: 6/5/90

ADDRESS:

Village Hall

Homer, IL 61849

AGENCY WELL NO: 47660

WELL NAME & DESC.: Well 1

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0190300 - Homer

FAC. PHONE NUMBER:

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

18N,14W,8,3D

DISTANCE FROM CORNER: 2300N,1500W

QUAD SHEET CODE & NAME: 148C - Homer

MIN. SETBACK: 200 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - low permeability silty/clayey till

AGE OF WELL (DATE WELL CONSTRUCTION): 1939

WELL DEPTH: 72 ft.

AQUIFER CODE: 0909 - sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): No

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is mostly rural. The area is a mixture of row crops and residential with some commercial

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

APPENDIX: B1 INVENTORY AND SYNOPSIS OF UNITS Homer Well #1 (IEPA #47660)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

---

WELL NO. - MAP CODE - CLASSF\*: 47660-01-

NAME & ADDRESS OF UNIT OWNER: unknown

DESCRIPTION AND COMMENTS: unmarked building w/below ground fuel storage

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1400 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47660-02-

NAME & ADDRESS OF UNIT OWNER: unknown, Main St, Homer, IL 61849

DESCRIPTION AND COMMENTS: abandoned gas station

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1650 ft. NE

---

WELL NO. - MAP CODE - CLASSF\*: 47660-03-

NAME & ADDRESS OF UNIT OWNER: Homer Automotive, Main and Mary, Homer, IL 61849

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1350 ft. NE

---



APPENDIX: B2 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Homer  
Well #2 (IEPA #47661)  
SURVEYOR: W. Boring  
SURVEY DATE: 6/5/90

ADDRESS:  
Village Hall  
Homer, IL 61849

AGENCY WELL NO: 47661  
WELL NAME & DESC.: Well 2  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0190300 - Homer  
FAC. PHONE NUMBER:  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
18N,14W,8,3C  
DISTANCE FROM CORNER: 1860N,1953W  
QUAD SHEET CODE & NAME: 148C - Homer  
MIN. SETBACK: 200 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - low permeability silty/clayey  
till  
AGE OF WELL (DATE WELL CONSTRUCTION): 1952  
WELL DEPTH: 61 ft.  
AQUIFER CODE: 0909 - sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): No  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is mostly rural.  
The area is a mixture of row crops and residential with some commercial  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

APPENDIX: B2 INVENTORY AND SYNOPSIS OF UNITS Homer Well #2 (IEPA #47661)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

---

WELL NO. - MAP CODE - CLASSF\*: 47661

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

---



APPENDIX: B3 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Homer  
Well #3 (IEPA #47662)

SURVEYOR: W. Boring

SURVEY DATE: 6/5/90

ADDRESS:

Village Hall

Homer, IL 61849

AGENCY WELL NO: 47662

WELL NAME & DESC.: Well 3

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0190300 - Homer

FAC. PHONE NUMBER:

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

18N,14W,8,5C

DISTANCE FROM CORNER: 1820N,2457E

QUAD SHEET CODE & NAME: 148C - Homer

MIN. SETBACK: 200 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E - low permeability silty/clayey till

AGE OF WELL (DATE WELL CONSTRUCTION): 1959

WELL DEPTH: 59 ft.

AQUIFER CODE: 0909 - sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): No

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is mostly rural. The area is a mixture of row crops and residential with some commercial

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

APPENDIX: B3 INVENTORY AND SYNOPSIS OF UNITS Homer Well #3 (IEPA #47662)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 47662

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

---

WB:jmm/sp0689L/1-11



## APPENDIX C





REPORT: PWGWP053  
MODULE: PWGWM027

FACILITY: 0190300 HOMER

----- OWNER ----- OFFICIAL CUSTODIAN -----

ERNEST WEINKE JR.

MAYOP, VILLAGE HALL

101 N. MAIN, PO BOX 98

HOMER IL 61849

WELL: 47660 WELL 1 IS INSIDE THE PLANT

LATITUDE: N40 01 53.0

SUSCEPTIBILITY - LAND BURIAL: E

STATUS: ACTIVE

LONGITUDE: W087 57 46.0

SUSCEPTIBILITY - LAND SPREADING: D2

DEPTH(FT): 72

TMP: 18N RNG: 14W SEC: 08 PLOT: 3D

--- MINIMUM SETBACK(FT): 0200 ---

AQUIFERS: QUATERNARY SYSTEM

WELL: 47661 WELL 2 IS 9M OF PLANT

LATITUDE: N40 01 45.0

SUSCEPTIBILITY - LAND BURIAL: E

STATUS: ACTIVE

LONGITUDE: W087 57 51.0

SUSCEPTIBILITY - LAND SPREADING: D2

DEPTH(FT): 61

TMP: 18N RNG: 14W SEC: 08 PLOT: 3C

--- MINIMUM SETBACK(FT): 0200 ---

AQUIFERS: QUATERNARY SYSTEM

WELL: 47662 WELL 3 IS 0.25 MILES WEST OF PLANT

LATITUDE: N40 01 43.0

SUSCEPTIBILITY - LAND BURIAL: E

STATUS: ACTIVE

LONGITUDE: W087 58 00.0

SUSCEPTIBILITY - LAND SPREADING: D2

DEPTH(FT): 59

TMP: 18N RNG: 14W SEC: 08 PLOT: 5C

--- MINIMUM SETBACK(FT): 0200 ---

AQUIFERS: QUATERNARY SYSTEM

SUSCEPTIBILITY CODES

LAND BURIAL: E

= UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

LAND SPREADING: D2

= UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.





## APPENDIX D





REPORT: PWGWP048  
MODULE: PWGWN025

FACILITY: 0190300 HOMER STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G  
TAP: STATUS:  
RAM SRCE: STATUS:

SAMPLE NO: 801159000 LOCATION: HOMER COLL DATE: 08/01/90 DELIVERED BY: MAIL  
SMPL TYPE: RAM COLLECTOR: R D STANFIELD LAB RCVD: 08/02/90 RECEIVED BY: PMD  
SMPL PURP: 3-REPLACE COMMENTS: LAB COMPL: 09/18/90 LAB SUPERVISOR: RPF  
SMPL PRG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 08/90 FUND CODE: PW30

| ANALYSIS RSLT       |     |       |   | STANDARD |         |           |         | TRIGGER |  |  |  |
|---------------------|-----|-------|---|----------|---------|-----------|---------|---------|--|--|--|
| ID                  | NO  | NO    | DESCRIPTION                             | UNITS    | RESULT  | DRINK WTR | RAM WTR | LEVEL   |  |  |  |
| PH LABORATORY UNITS |     |       |   |          |         |           |         |         |  |  |  |
| 1201000             | 001 | 00403 | PH                                      | UNITS    | 8.100   |           |         |         |  |  |  |
| 1011000             | 001 | 00092 | CONDUCTIVITY(CE)-LABCUMHOS/CM @ 25 C    | UM/CM    | 705.000 |           |         |         |  |  |  |
| 1021000             | 001 | 70320 | RESIDUE, TOTAL ELITERABLE @180 C, MG/L  | MG/L     | 408.000 |           |         |         |  |  |  |
| 1031000             | 001 | 00410 | ALKALINITY, TOTAL MG/L AS CaCO3         | MG/L     | 363.000 |           |         |         |  |  |  |
| 1051000             | 001 | 00900 | HARDNESS, EDTA MG/L AS CaCO3            | MG/L     | 241.000 |           |         |         |  |  |  |
| 1021000             | 001 | 00951 | FLUORIDE, TOTAL MG/L AS F               | MG/L     | 0.540   | 4.000     |         |         |  |  |  |
| 1081000             | 001 | 00940 | CHLORIDE, TOTAL MG/L AS CL              | MG/L     | 23.000  |           |         |         |  |  |  |
| 1091000             | 001 | 00945 | SULFATE, TOTAL MG/L AS SO4              | MG/L     | 18.000  |           |         |         |  |  |  |
| 1101000             | 001 | 00630 | NITRATE & NITRITE, TOTAL MG/L AS N      | MG/L     | 0.010   | 10.000    |         |         |  |  |  |
| 1111000             | 001 | 00610 | NITROGEN, AMMONIA, TOTAL MG/L AS N      | MG/L     | 1.700   |           |         |         |  |  |  |
| 1141000             | 001 | 00956 | SILICA, TOTAL MG/L AS SiO2              | MG/L     | 19.000  |           |         |         |  |  |  |
| 1161000             | 001 | 00720 | CYANIDE, TOTAL MG/L AS CN               | MG/L     | 0.005   | 0.200     |         |         |  |  |  |
| 1441000             | 001 | 01002 | ARSENIC, TOTAL RECOVERABLE UG/L AS AS   | UG/L     | 2.000   | 50.000    |         |         |  |  |  |
| 1511000             | 001 | 01051 | LEAD, TOTAL RECOVERABLE UG/L AS Pb      | UG/L     | 5.000   | 50.000    |         |         |  |  |  |
| 1531000             | 001 | 01900 | MERCURY, TOTAL UG/L AS Hg               | UG/L     | 0.050   | 2.000     |         |         |  |  |  |
| 1571000             | 001 | 01147 | SELENIUM, TOTAL RECOVERABLE UG/L AS SE  | UG/L     | 1.000   | 10.000    |         |         |  |  |  |
| 1771100             | 001 | 00915 | CALCIUM, TOTAL RECOVERABLE MG/L AS Ca   | MG/L     | 61.400  |           |         |         |  |  |  |
| 1771100             | 002 | 00927 | MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca | MG/L     | 25.300  |           |         |         |  |  |  |
| 1771100             | 003 | 00929 | SODIUM, TOTAL RECOVERABLE MG/L AS Na    | MG/L     | 63.000  |           |         |         |  |  |  |
| 1771100             | 004 | 00937 | POTASSIUM, TOTAL RECOVERABLE MG/L AS K  | MG/L     | 1.000   |           |         |         |  |  |  |
| 1771100             | 005 | 01105 | ALUMINUM, TOTAL RECOVERABLE UG/L AS AL  | UG/L     | 150.000 |           |         |         |  |  |  |
| 1771100             | 006 | 01007 | BARIUM, TOTAL RECOVERABLE UG/L AS Ba    | UG/L     | 126.000 | 1000.000  |         |         |  |  |  |
| 1771100             | 007 | 01022 | BORON, TOTAL RECOVERABLE UG/L AS B      | UG/L     | 638.000 |           |         |         |  |  |  |
| 1771100             | 008 | 01012 | BERYLLIUM, TOTAL RECOVERABLE UG/L AS Be | UG/L     | 1.000   |           |         |         |  |  |  |
| 1771100             | 009 | 01027 | CADMIUM, TOTAL RECOVERABLE UG/L AS Cd   | UG/L     | 5.000   | 10.000    |         |         |  |  |  |
| 1771100             | 010 | 01034 | CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr  | UG/L     | 5.000   | 50.000    |         |         |  |  |  |
| 1771100             | 011 | 01042 | COPPER, TOTAL RECOVERABLE UG/L AS Cu    | UG/L     | 10.000  | 5000.000  |         |         |  |  |  |
| 1771100             | 012 | 01037 | COBALT, TOTAL RECOVERABLE UG/L AS Co    | UG/L     | 5.000   |           |         |         |  |  |  |
| 1771100             | 013 | 01045 | IRON, TOTAL RECOVERABLE, UG/L AS Fe     | UG/L     | 378.000 | 1000.000  |         |         |  |  |  |
| 1771100             | 014 | 01055 | MANGANESE, TOTAL RECOVERABLE UG/L AS Mn | UG/L     | 73.000  | 150.000   |         |         |  |  |  |
| 1771100             | 015 | 01067 | NICKEL, TOTAL RECOVERABLE UG/L AS Ni    | UG/L     | 15.000  |           |         |         |  |  |  |
| 1771100             | 016 | 01077 | SILVER, TOTAL RECOVERABLE UG/L AS Ag    | UG/L     | 5.000   | 50.000    |         |         |  |  |  |
| 1771100             | 017 | 01082 | STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr | UG/L     | 586.000 |           |         |         |  |  |  |
| 1771100             | 018 | 01087 | VANADIUM, TOTAL RECOVERABLE UG/L AS V   | UG/L     | 5.000   |           |         |         |  |  |  |
| 1771100             | 019 | 01092 | ZINC, TOTAL RECOVERABLE UG/L AS Zn      | UG/L     | 50.000  | 5000.000  |         |         |  |  |  |
| 1771100             | 020 | 82394 | HARDNESS, CALC - MG/L                   | MG/L     | 256.000 |           |         |         |  |  |  |



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 2  
DATE: 12/13/90

REPORT: DWGWP049  
MODULE: PWGWP026

FACILITY: J199300 HOMER  
TAP: 01 PLANT IS ON SOUTHWEST CORNER OF TOWN  
RAW SPEC: 47660 WELL 1 IS INSIDE THE PLANT

SAMPLE NO: Z091133  
SMPL TYPE: RAW  
SMPL PURP: 5-SPEC/OTHR  
SMPL PROG: B-GMM PEST OBSRVATNS

STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G  
STATUS: A  
STATUS: A

LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
COMMENTS:

STREET:-----  
NO. NO. DESCRIPTION

UNITS RESULT ORINK WTR RAW WTR TRIGGER LEVEL

|        |     |       |   |         |   |
|--------|-----|-------|---|---------|---|
| 000001 | 001 | 39023 | PHORATE UG/L                                  | 0.050   | < |
| 000001 | 002 | 39300 | P,P'-DDT UG/L                                 | 0.010   | < |
| 000001 | 003 | 39305 | D,P'-DDT UG/L                                 | 0.010   | < |
| 000001 | 004 | 39310 | P,P'-DDD UG/L                                 | 0.010   | < |
| 000001 | 005 | 39315 | D,P'-DDD UG/L                                 | 0.010   | < |
| 000001 | 006 | 39320 | P,P'-DDE UG/L                                 | 0.010   | < |
| 000001 | 007 | 39327 | D,P'-DDE UG/L                                 | 0.010   | < |
| 000001 | 008 | 39330 | ALDRIN UG/L                                   | 0.010   | < |
| 000001 | 009 | 39342 | LINDANE UG/L                                  | 0.010   | < |
| 000001 | 010 | 39355 | METOLACHLOR (DUAL) UG/L                       | 0.100   | < |
| 000001 | 011 | 39380 | DIELDRIN UG/L                                 | 0.010   | < |
| 000001 | 012 | 39390 | ENDRIN UG/L                                   | 0.010   | < |
| 000001 | 013 | 39398 | ETHION UG/L                                   | 0.010   | < |
| 000001 | 014 | 39400 | TOXAPHENE UG/L                                | 0.050   | < |
| 000001 | 015 | 39410 | HEPTACHLOR UG/L                               | 1.000   | < |
| 000001 | 016 | 39420 | HEPTACHLOR EPOXIDE UG/L                       | 0.010   | < |
| 000001 | 017 | 39430 | METHOXYCHLOR UG/L                             | 0.010   | < |
| 000001 | 018 | 39515 | TOTAL PCB'S UG/L                              | 0.050   | < |
| 000001 | 019 | 39530 | MALATHION UG/L                                | 0.050   | < |
| 000001 | 020 | 39570 | DIAZINON UG/L                                 | 0.050   | < |
| 000001 | 021 | 39600 | METHYL PARATHION UG/L                         | 0.050   | < |
| 000001 | 022 | 39630 | ATRAZINE (AATREX) UG/L                        | 0.050   | < |
| 000001 | 023 | 39730 | 2,4-D UG/L                                    | 0.100   | < |
| 000001 | 024 | 39760 | SILVEX UG/L                                   | 0.050   | < |
| 000001 | 025 | 39810 | GAMMA CHLORDANE UG/L                          | 0.010   | < |
| 000001 | 026 | 77925 | ALACHLOR UG/L                                 | 0.020   | < |
| 000001 | 027 | 81234 | DYFONATE UG/L                                 | 0.050   | < |
| 000001 | 028 | 81403 | DURSBAN UG/L                                  | 0.050   | < |
| 000001 | 029 | 81757 | CYANAZINE UG/L                                | 0.050   | < |
| 000001 | 030 | 82088 | TERBUFOS (COUNTER) UG/L                       | 0.050   | < |
| 000001 | 031 | 00010 | WATER TEMPERATURE DEG C                       | 13.500  |   |
| 000001 | 032 | 00090 | OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS | 180.000 |   |
| 000001 | 033 | 00035 | CONDUCTIVITY(EC)-LAB(CUMHOS/CM @ 25 C         | 570.000 |   |
| 000001 | 034 | 00400 | PH PH UNITS                                   | 7.100   |   |
| 000001 | 035 | 72004 | FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN     | 95.000  |   |
| 000001 | 036 | 90410 |   | 382.000 |   |

SAMPLE NO: B00669-00  
SMPL TYPE: RAW  
SMPL PURP: 1-ROUTINE

LOCATION: HOMER WELL 1  
COLLECTOR: P STANFIELD  
COMMENTS:

COLL DATE: 05/08/90  
LAB RCVD: 05/08/90  
LAB COMPL: 07/12/90

DELIVERED BY: MC  
RECEIVED BY: MAD  
LAB SUPERVISOR: RPF



FACILITY: 0120300 HOMER

\*\*\* CONTINUED \*\*\*

| SMPL PRPG: C-CHEMICAL |     |       |  | OBSRVATNS:  |       |    |  | SMPL PERIOD: 05/90 |  |        |  | FUND CODE: PM30 |     |         |        |         |
|-----------------------|-----|-------|--|---|-------|----|--|--------------------|--|--------|--|-----------------|-----|---------|--------|---------|
| ANALYSIS              |     | RSLT  |  | NO  |       | NO |  | DESCRIPTION        |  | STORET |  | STANDARDS       |     | TRIGGER |        |         |
| ID                    |     |       |  |   |       |    |  |                    |  |        |  | ORINK           | WIR | RAW     | WIR    | LEVEL   |
| PH LABORATORY UNITS   |     |       |  |   |       |    |  |                    |  |        |  |                 |     |         |        |         |
| 10CT000               | 001 | 00403 |  | PH  | UNITS |    |  |                    |  |        |  |                 |     |         |        | 7.500   |
| 101T000               | 001 | 00095 |  | CONDUCTIVITY(CE)-LABCUMHDS/CM @ 25 C                | UM/CM |    |  |                    |  |        |  |                 |     |         |        | 775.000 |
| 102T000               | 001 | 70300 |  | RESIDUE, TOTAL FILTERABLE @180 C, MG/L              | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 474.000 |
| 103T000               | 001 | 02410 |  | ALKALINITY, TOTAL MG/L AS CAC03                     | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 378.000 |
| 105T000               | 001 | 00900 |  | HARDNESS, EDTA MG/L AS CAC03                        | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 288.000 |
| 107T000               | 001 | 00951 |  | FLUORIDE, TOTAL MG/L AS F                           | MG/L  |    |  |                    |  |        |  |                 |     |         | 4.000  |         |
| 108T000               | 001 | 00940 |  | CHLORIDE, TOTAL MG/L AS CL                          | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 27.000  |
| 109T000               | 001 | 00945 |  | SULFATE, TOTAL MG/L AS S04                          | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 20.000  |
| 110T000               | 001 | 00630 |  | NITRATE & NITRITE TOTAL MG/L AS N                   | MG/L  |    |  |                    |  |        |  |                 |     |         | 10.000 |         |
| 111T000               | 001 | 00610 |  | NITROGEN, AMMONIA TOTAL MG/L AS N                   | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 1.700   |
| 114T000               | 001 | 00956 |  | SILICA, TOTAL MG/L AS S102                          | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 18.000  |
| 116T000               | 001 | 00720 |  | CYANIDE, TOTAL MG/L AS CN                           | MG/L  |    |  |                    |  |        |  |                 |     |         | 0.200  |         |
| 144T000               | 001 | 01002 |  | ARSENIC, TOTAL RECOVERABLE UG/L AS AS               | UG/L  |    |  |                    |  |        |  |                 |     |         | 50.000 |         |
| 151T000               | 001 | 01051 |  | LEAD, TOTAL RECOVERABLE UG/L AS PB                  | UG/L  |    |  |                    |  |        |  |                 |     |         | 50.000 |         |
| 153T000               | 001 | 01190 |  | MERCURY, TOTAL UG/L AS HG                           | UG/L  |    |  |                    |  |        |  |                 |     |         | 2.000  |         |
| 155T000               | 001 | 01147 |  | SELENIUM, TOTAL RECOVERABLE UG/L AS SE              | UG/L  |    |  |                    |  |        |  |                 |     |         | 10.000 |         |
| 177T100               | 001 | 00916 |  | CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP   | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 75.200  |
| 177T100               | 002 | 00927 |  | MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 28.600  |
| 177T100               | 003 | 00929 |  | SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP    | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 71.000  |
| 177T100               | 004 | 00937 |  | POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 3.450   |
| 177T100               | 005 | 01105 |  | ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP  | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 50.000  |
| 177T100               | 006 | 01007 |  | BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP    | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 12.000  |
| 177T100               | 007 | 01022 |  | BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP      | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 63.000  |
| 177T100               | 008 | 01012 |  | BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 1.000   |
| 177T100               | 009 | 01027 |  | CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB   | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 3.000   |
| 177T100               | 010 | 01034 |  | CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB  | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 011 | 01042 |  | COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP    | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 012 | 01037 |  | COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP    | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 013 | 01045 |  | IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP      | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 50.000  |
| 177T100               | 014 | 01055 |  | MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 8.000   |
| 177T100               | 015 | 01067 |  | NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP    | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 016 | 01077 |  | SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP    | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 017 | 01082 |  | STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 56.000  |
| 177T100               | 018 | 01087 |  | VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP   | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 5.000   |
| 177T100               | 019 | 01092 |  | ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP      | UG/L  |    |  |                    |  |        |  |                 |     |         |        | 50.000  |
| 177T100               | 020 | 82394 |  | HARDNESS, CALC - MG/L                               | MG/L  |    |  |                    |  |        |  |                 |     |         |        | 305.000 |

SAMPLE NO: Z001132  
SMPL TYPE: RAW  
SMPL PRPG: 5-SPEC/01HR  
SMPL PURP: I-GWM INDRG OBSRVATNS:

LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
COMMENTS:

COLL DATE: 05/14/86  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 05/86  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 4  
DATE: 12/13/90

EPOPT: PWGWP049  
DOULE: PWGWM026

FACILITY: 1120300 HOMER

\*\*\* CONTINUED \*\*\*

| ANALYSIS<br>IO | SLT<br>NO | NO | DESCRIPTION | STOR | UNITS | RESULT | STANDARDS |         | TRIGGER<br>LEVEL |
|----------------|-----------|----|-------------|------|-------|--------|-----------|---------|------------------|
|                |           |    |             |      |       |        | DPINK WTR | RAW WTR |                  |

|         |     |       |   |  |  |          |   |           |  |
|---------|-----|-------|---|--|--|----------|---|-----------|--|
| 0000001 | 001 | 00610 | NITROGEN, AMMONIA TOTAL MG/L AS N                   |  |  | 1.600    |   |           |  |
| 0000001 | 002 | 00630 | NITRATE & NITRITE TOTAL MG/L AS N                   |  |  | 0.100    | < | 10.000    |  |
| 0000001 | 003 | 00645 | PHOSPHORUS, TOTAL MG/L AS P                         |  |  | 0.200    |   |           |  |
| 0000001 | 004 | 00720 | CYANIDE, TOTAL MG/L AS CN                           |  |  | 0.010    | < | 0.200     |  |
| 0000001 | 005 | 00900 | HARDNESS, EDTA MG/L AS CaCO3                        |  |  | 320.000  |   |           |  |
| 0000001 | 006 | 00915 | CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP   |  |  | 77.000   |   |           |  |
| 0000001 | 007 | 00927 | MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP |  |  | 32.000   |   |           |  |
| 0000001 | 008 | 00929 | SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP    |  |  | 60.000   |   |           |  |
| 0000001 | 009 | 00937 | POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  |  |  | 2.100    |   |           |  |
| 0000001 | 010 | 00940 | CHLORIDE, TOTAL MG/L AS CL                          |  |  | 24.000   |   |           |  |
| 0000001 | 011 | 00945 | SULFATE, TOTAL MG/L AS SO4                          |  |  | 36.000   |   |           |  |
| 0000001 | 012 | 00951 | FLUORIDE, TOTAL MG/L AS F                           |  |  | 0.490    |   | 4.000     |  |
| 0000001 | 013 | 00956 | SILICA, TOTAL MG/L AS SiO2                          |  |  | 17.000   |   |           |  |
| 0000001 | 014 | 00955 | SILICA, TOTAL MG/L AS SiO2                          |  |  | 17.000   |   |           |  |
| 0000001 | 015 | 01002 | ARSENIC, TOTAL RECOVERABLE UG/L AS AS               |  |  | 4.000    |   | 50.000    |  |
| 0000001 | 016 | 01007 | BARIUM, TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP    |  |  | 160.000  |   | 1000.000  |  |
| 0000001 | 017 | 01012 | BERYLLIUM, TOTAL RECOVERABLE UG/L AS Be ANAL BY ICP |  |  | 0.500    | < |           |  |
| 0000001 | 018 | 01022 | BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP      |  |  | 627.000  |   |           |  |
| 0000001 | 019 | 01027 | CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP   |  |  | 3.000    | < | 10.000    |  |
| 0000001 | 020 | 01034 | CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP  |  |  | 5.000    | < | 50.000    |  |
| 0000001 | 021 | 01037 | COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP    |  |  | 5.000    | < |           |  |
| 0000001 | 022 | 01042 | COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP    |  |  | 5.000    | < | 5000.000  |  |
| 0000001 | 023 | 01045 | IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP      |  |  | 1142.000 |   | 1000.000* |  |
| 0000001 | 024 | 01051 | LEAD, TOTAL RECOVERABLE UG/L AS Pb                  |  |  | 5.000    | < | 50.000    |  |
| 0000001 | 025 | 01055 | MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP |  |  | 109.000  |   | 150.000   |  |
| 0000001 | 026 | 01067 | NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP    |  |  | 5.000    | < |           |  |
| 0000001 | 027 | 01077 | SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP    |  |  | 3.000    | < | 50.000    |  |
| 0000001 | 028 | 01082 | STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP |  |  | 577.000  |   |           |  |
| 0000001 | 029 | 01087 | VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP   |  |  | 5.000    | < |           |  |
| 0000001 | 030 | 01092 | ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP      |  |  | 50.000   | < | 5000.000  |  |
| 0000001 | 031 | 01105 | ALUMINUM, TOTAL RECOVERABLE UG/L AS Al ANAL BY ICP  |  |  | 50.000   | < |           |  |
| 0000001 | 032 | 01147 | SELENIUM, TOTAL RECOVERABLE UG/L AS Se              |  |  | 1.000    | < | 10.000    |  |
| 0000001 | 033 | 32730 | PHENOLS, TOTAL RECOVERABLE UG/L                     |  |  | 5.000    | < |           |  |
| 0000001 | 034 | 70300 | RESIDUE, TOTAL FILTERABLE 2180 C.MG/L               |  |  | 450.000  |   |           |  |
| 0000001 | 035 | 71900 | MERCURY, TOTAL UG/L AS Hg                           |  |  | 0.050    |   | 2.000     |  |
| 0000001 | 036 | 00010 | WATER TEMPERATURE DEG C                             |  |  | 13.500   |   |           |  |
| 0000001 | 037 | 00090 | OXIDATION-REDUCTION POTENTIAL (CEM) MILLIVOLTS      |  |  | 180.000  |   |           |  |
| 0000001 | 038 | 00095 | CONDUCTIVITY(CEC)-LAB(CUMHOS/CM @ 25 C              |  |  | 570.000  |   |           |  |
| 0000001 | 039 | 00400 | PH PH UNITS   |  |  | 7.100    |   |           |  |
| 0000001 | 040 | 72024 | FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN           |  |  | 95.000   |   |           |  |
| 0000001 | 041 | 90410 |   |  |  | 382.000  |   |           |  |

|                                  |                        |                     |                 |
|----------------------------------|------------------------|---------------------|-----------------|
| SAMPLE NO: 8026773               | LOCATION: WELL #1      | COLL DATE: 02/27/83 | DELIVERED BY:   |
| SMP TYPE: RAW                    | COLLECTOR: R STANFIELD | LAB RCVD: 04/13/83  | RECEIVED BY:    |
| SMPL PUP: 1-ROUTINE              | COMMENTS:              | LAB COMPL:          | LAB SUPERVISOR: |
| SMPL PUP: 1-6M FLOW OBSERVATIONS |                        | SMP PERIOD: 02/83   | FUND CODE:      |



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 5  
DATE: 12/13/90

REPORT: PWGWP048  
MODULE: PWGWA026

FACILITY: C190300 HOMER

\*\*\* CONTINUED \*\*\*

| ANALYSIS<br>ID | RESULT<br>NO | STORET<br>NO | DESCRIPTION   | UNITS | RESULT  | STANDARDS |         | TRIGGER<br>LEVEL |
|----------------|--------------|--------------|---|-------|---------|-----------|---------|------------------|
|                |              |              |   |       |         | DRINK WTR | RAW WTR |                  |
| 00035          |              |              | CONDUCTIVITY(CE)-LABCUMHOS/CM @ 25 C                |       | 760.000 |           |         |                  |
| 00413          |              |              | PH LABORATORY UNITS                                 |       | 7.900   |           |         |                  |
| 00413          |              |              | ALKALINITY, TOTAL MG/L AS CaCO3                     |       | 369.000 |           |         |                  |
| 00610          |              |              | NITROGEN, AMMONIA TOTAL MG/L AS N                   |       | 1.400   |           |         |                  |
| 00630          |              |              | NITRATE & NITRITE TOTAL MG/L AS N                   |       | 0.100 < | 10.000    |         |                  |
| 00720          |              |              | CYANIDE, TOTAL MG/L AS CN                           |       | 0.005 < | 0.200     |         |                  |
| 00900          |              |              | HARDNESS, EDTA MG/L AS CaCO3                        |       | 312.000 |           |         |                  |
| 00916          |              |              | CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP   |       | 74.000  |           |         |                  |
| 00927          |              |              | MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP |       | 31.000  |           |         |                  |
| 00929          |              |              | SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP    |       | 60.000  |           |         |                  |
| 00937          |              |              | POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  |       | 2.200   |           |         |                  |
| 00940          |              |              | CHLORIDE, TOTAL MG/L AS CL                          |       | 21.000  |           |         |                  |
| 00945          |              |              | SULFATE, TOTAL MG/L AS SO4                          |       | 40.000  |           |         |                  |
| 00951          |              |              | FLUORIDE, TOTAL MG/L AS F                           |       | 0.440   | 4.000     |         |                  |
| 00956          |              |              | SILICA, TOTAL MG/L AS SiO2                          |       | 17.000  |           |         |                  |
| 01002          |              |              | ARSENIC, TOTAL RECOVERABLE UG/L AS AS               |       | 4.000   | 50.000    |         |                  |
| 01007          |              |              | BARIUM, TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP    |       | 158.000 | 1000.000  |         |                  |
| 01012          |              |              | BERYLLIUM, TOTAL RECOVERABLE UG/L AS Be ANAL BY ICP |       | 0.500 < |           |         |                  |
| 01022          |              |              | BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP      |       | 610.000 |           |         |                  |
| 01027          |              |              | CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICB   |       | 3.000 < | 10.000    |         |                  |
| 01034          |              |              | CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICB  |       | 3.000 < | 50.000    |         |                  |
| 01037          |              |              | COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP    |       | 5.000 < |           |         |                  |
| 01042          |              |              | COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP    |       | 3.000 < | 5000.000  |         |                  |
| 01045          |              |              | IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP      |       | 900.000 | 1000.000  |         |                  |
| 01051          |              |              | LEAD, TOTAL RECOVERABLE UG/L AS Pb                  |       | 5.000   | 50.000    |         |                  |
| 01055          |              |              | MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP |       | 95.000  | 150.000   |         |                  |
| 01067          |              |              | NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP    |       | 5.000 < |           |         |                  |
| 01077          |              |              | SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP    |       | 5.000 < | 50.000    |         |                  |
| 01082          |              |              | STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP |       | 570.000 |           |         |                  |
| 01087          |              |              | VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP   |       | 4.000 < |           |         |                  |
| 01092          |              |              | ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP      |       | 4.000   | 5000.000  |         |                  |
| 01147          |              |              | SELENIUM, TOTAL RECOVERABLE UG/L AS Se              |       | 1.000 < | 10.000    |         |                  |
| 70300          |              |              | RESIDUE, TOTAL FILTERABLE @180 C, MG/L              |       | 474.000 |           |         |                  |
| 70304          |              |              | TOTAL DISSOLVED SOLIDS MG/L BY FC                   |       | 460.000 |           |         |                  |
| 71000          |              |              | MERCURY, TOTAL UG/L AS Hg                           |       | 0.120   | 2.000     |         |                  |

SAMPLE NO: 2001131  
SMPL TYPE: RAW  
SMPL PURP: 5-SPEC/GTHP  
SMPL PRG: V-VOC

COLL DATE: 05/14/86  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 05/86

DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

| ANALYSIS<br>ID | RESULT<br>NO | STORET<br>NO | DESCRIPTION                     | UNITS | RESULT  | STANDARDS |         | TRIGGER<br>LEVEL |
|----------------|--------------|--------------|---------------------------------|-------|---------|-----------|---------|------------------|
|                |              |              |                                 |       |         | DRINK WTR | RAW WTR |                  |
| 0000001        | 001          | 32101        | BROMODICHLOROMETHANE UG/L CG/MS |       | 1.000 < |           |         |                  |
| 0000001        | 002          | 32102        | CARBON TETRACHLORIDE UG/L CG/MS |       | 1.000 < |           |         |                  |
| 0000001        | 003          | 32103        | 1,2-DICHLOROETHANE UG/L         |       | 1.000 < |           |         |                  |





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 7  
DATE: 12/13/90

REPORT: PWGMP049  
MODULE: PWGMM026

FACILITY: 0100300 H3H9P

\*\*\* CONTINUED \*\*\*

|         |     |       |   |         |   |          |
|---------|-----|-------|---|---------|---|----------|
| 0000001 | 018 | 01022 | BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP      | 677.000 |   |          |
| 0000001 | 019 | 01027 | CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP   | 3.000   | < | 10.000   |
| 0000001 | 020 | 01036 | CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP  | 5.000   | < | 50.000   |
| 0000001 | 021 | 01037 | COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP    | 5.000   | < | 5000.000 |
| 0000001 | 022 | 01042 | COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP    | 6.000   |   | 1000.000 |
| 0000001 | 023 | 01045 | IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP      | 371.000 |   |          |
| 0000001 | 024 | 01051 | LEAD, TOTAL RECOVERABLE UG/L AS PB                  | 5.000   | < | 50.000   |
| 0000001 | 025 | 01055 | MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP | 74.000  |   | 150.000  |
| 0000001 | 026 | 01067 | NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP    | 5.000   | < |          |
| 0000001 | 027 | 01077 | SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP    | 3.000   | < | 50.000   |
| 0000001 | 028 | 01082 | STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP | 564.000 |   |          |
| 0000001 | 029 | 01097 | VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP   | 5.000   | < |          |
| 0000001 | 030 | 01092 | ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP      | 50.000  | < | 5000.000 |
| 0000001 | 031 | 01105 | ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP  | 50.000  | < |          |
| 0000001 | 032 | 01147 | SELENIUM, TOTAL RECOVERABLE UG/L AS SE              | 1.000   | < | 10.000   |
| 0000001 | 033 | 32730 | PHENOLS, TOTAL RECOVERABLE UG/L                     | 5.000   | < |          |
| 0000001 | 034 | 70300 | RESIDUE, TOTAL FILTERABLE 180 C, MG/L               | 422.000 |   |          |
| 0000001 | 035 | 71900 | MERCURY, TOTAL UG/L AS HG                           | 0.050   |   | 2.000    |
| 0000001 | 036 | 00010 | WATER TEMPERATURE DEG C                             | 13.000  |   |          |
| 0000001 | 037 | 00059 | FLOW (PUMPING) RATE GAL/MIN                         | 90.000  |   |          |
| 0000001 | 038 | 00090 | OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS       | 182.000 | - |          |
| 0000001 | 039 | 00095 | CONDUCTIVITY (EC)-LAB (UMHOS/CM @ 25 C              | 505.000 |   |          |
| 0000001 | 040 | 00400 | PH PH UNITS   | 7.200   |   |          |
| 0000001 | 041 | 72004 | FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN           | 150.000 |   |          |
| 0000001 | 042 | 90410 |   | 398.000 |   |          |

SAMPLE NO: 8032117  
SMPL TYPE: RAW  
SMPL PURP: 1-ROUTINE  
SMPL PRPG: 1-GWM INORG OBRVATNS:

LOCATION: WELL #2  
COLLECTOR: R STANFIELD  
COMMENTS:

COLL DATE: 01/05/91  
LAB RCVD: 02/04/91  
LAB COMPL:  
SMPL PERIOD: 01/91  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS RSLT NO NO DESCRIPTION

00095 CONDUCTIVITY (EC)-LAB (UMHOS/CM @ 25 C  
00403 PH LABORATORY UNITS  
00410 ALKALINITY, TOTAL MG/L AS CaCO3  
00610 NITROGEN, AMMONIA TOTAL MG/L AS N  
00630 NITRATE & NITRITE TOTAL MG/L AS N  
00720 CYANIDE, TOTAL MG/L AS CN  
00900 HARDNESS, EDTA MG/L AS CaCO3  
00915 CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
00927 MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
00929 SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP  
00937 POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  
00940 CHLORIDE, TOTAL MG/L AS CL  
00945 SULFATE, TOTAL MG/L AS SO4  
00951 FLUORIDE, TOTAL MG/L AS F  
00955 SILICA, TOTAL MG/L AS SiO2  
01002 ARSENIC, TOTAL RECOVERABLE UG/L AS AS

UNITS RESULT STANDARD ORINK MTR RAW MTR TRIGGER LEVEL

740.000  
7.600  
369.000  
1.800  
0.100 < 10.000  
0.005 < 0.200  
266.000  
62.000  
26.000  
67.000  
1.800  
19.000  
20.000  
0.620  
18.000  
2.000  
50.000





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

REPORT: PWGMP049  
MODUL: PWGMC26

PAGE: 9  
DATE: 12/13/90

FACILITY: 0190300 HOMER

0000001 024 30410

FACILITY: 0190300 HOMER

TAP: 01 PLANT

RAW SRC: 47662 WELL 3 IS 0.25 MILES WEST OF PLANT

IS ON SOUTHWEST CORNER OF TOWN

STATUS: A

STATUS: A

STATUS: A

TYPE WATER: G

COMM: Y

PUBLIC: Y

STATUS: A

STATUS: A

STATUS: A

STATUS: A

STATUS: A

STATUS: A

STATUS: A

STATUS: A

STATUS: A

SAMPLE NO: 000669700

SMPL TYPE: RAW

SMPL PURP: 1-ROUTINE

SMPL PROG: G-CHEMICAL

LOCATION: HOMER WELL 3

COLLECTOR: R STANFIELD

COMMENTS:

OBSRVATNS:

COLL DATE: 05/08/90 DELIVERED BY: HC  
LAB RCVD: 05/08/90 RECEIVED BY: MAQ  
LAB COMPL: 07/12/90 LAB SUPERVISOR: RPF  
SMPL PERIOD: 05/90 FUND CODE: PW30

ANALYSIS RSLT NO NO DESCRIPTION

PH LABORATORY UNITS  
CONDUCTIVITY(C) - LAB(CUMHOS/CM @ 25 C  
RESIDUE, TOTAL FILTERABLE @180 C, MG/L  
ALKALINITY, TOTAL MG/L AS CaCO3  
HARDNESS, EDTA MG/L AS CaCO3  
FLUORIDE, TOTAL MG/L AS F  
CHLORIDE, TOTAL MG/L AS CL  
SULFATE, TOTAL MG/L AS SO4  
NITRATE & NITRITE TOTAL MG/L AS N  
NITROGEN, AMMONIA TOTAL MG/L AS N  
SILICA, TOTAL MG/L AS SiO2  
CYANIDE, TOTAL MG/L AS CN  
ARSENIC, TOTAL RECOVERABLE UG/L AS AS  
LEAD, TOTAL RECOVERABLE UG/L AS PB  
MERCURY, TOTAL UG/L AS HG  
SELENIUM, TOTAL RECOVERABLE UG/L AS SE  
CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP  
MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP  
SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP  
POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  
ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP  
BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP  
BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP  
BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP  
CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP  
CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP  
COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP  
COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP  
IRON, TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP  
MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP  
NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP  
SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP  
STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP  
VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP  
ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP  
HARDNESS, CALC - MG/L

-----STANDARDS-----  
DRINK MTR RAW MTR TRIGGER  
LEVEL

UNITS RESULT  
UM/CM 7.400  
MG/L 855.000  
MG/L 503.000  
MG/L 412.000  
MG/L 315.000  
MG/L 0.400  
MG/L 37.000  
MG/L 25.000  
MG/L 0.100  
MG/L 1.800  
MG/L 18.000  
MG/L 0.005  
MG/L 1.000  
UG/L 5.000  
UG/L 0.100  
UG/L 1.000  
MG/L 84.900  
MG/L 30.700  
MG/L 82.500  
MG/L 3.240  
UG/L 50.000  
UG/L 11.000  
UG/L 75.000  
UG/L 1.000  
UG/L 3.000  
UG/L 5.000  
UG/L 5.000  
UG/L 5.000  
UG/L 50.000  
UG/L 7.000  
UG/L 5.000  
UG/L 5.000  
UG/L 59.000  
UG/L 5.000  
UG/L 50.000  
MG/L 338.000



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 10  
DATE: 12/13/90

REPORT: DWG4P048  
MODULE: PWGWM026

FACILITY: 0100300 HOMER

SAMPLE NO: B026772  
SMPL TYPE: RAW  
SMPL PURP: I-ROUTINE  
SMPL PRDG: I-GWM INORG DGRSVATNS:  
LOCATION: WELL #3  
COLLECTOR: R STANFIELD  
COMMENTS:

COLL DATE: 02/24/83  
LAB RCVD: 04/13/83  
LAB COMPL:  
SMPL PERIOD: 02/83  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

\*\*\* CONTINUED \*\*\*

ANALYSIS RSLT NO NJ DESCRIPTION  
ID

UNITS RESULT DRINK WTR RAM WTR TRIGGER LEVEL

CONDUCTIVITY(CE)-LAB3CUMHDS/CM @ 25 C  
PH LABORATORY UNITS  
ALKALINITY, TOTAL MG/L AS CaCO3  
NITROGEN, AMMONIA TOTAL MG/L AS N  
NITRATE & NITRITE TOTAL MG/L AS N  
CYANIDE, TOTAL MG/L AS CN  
HARDNESS, EDTA MG/L AS CaCO3  
CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP  
SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP  
POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP  
CHLORIDE, TOTAL MG/L AS CL  
SULFATE, TOTAL MG/L AS SO4  
FLUORIDE, TOTAL MG/L AS F  
SILICA, TOTAL MG/L AS SiO2  
ARSENIC, TOTAL RECOVERABLE UG/L AS AS  
BARIUM, TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP  
BERYLLIUM, TOTAL RECOVERABLE UG/L AS Be ANAL BY ICP  
BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP  
CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICP  
CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICP  
COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP  
COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP  
IRON, TOTAL RECOVERABLE UG/L AS Fe ANAL BY ICP  
LEAD, TOTAL RECOVERABLE UG/L AS Pb  
MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP  
NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP  
SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP  
STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP  
VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP  
ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP  
SELENIUM, TOTAL RECOVERABLE UG/L AS Se  
RESIDUE, TOTAL FILTERABLE @180 C, MG/L  
TOTAL DISSOLVED SOLIDS MG/L BY EC  
MERCURY, TOTAL UG/L AS Hg

870.000  
7.800  
409.000  
1.300  
0.100 < 10.000  
0.005 < 0.200  
315.000  
78.000  
23.000  
84.000  
2.400  
37.000  
27.000  
0.400  
18.000  
1.000 < 50.000  
137.000  
0.500  
860.000  
3.000 < 10.000  
5.000 < 50.000  
5.000 <  
3.000 < 5000.000  
730.000  
7.000  
67.000  
3.000 <  
5.000 < 50.000  
620.000  
4.000 <  
2.000 < 5000.000  
1.000 < 10.000  
538.000  
520.000  
0.050 < 2.000





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